

## Exhibit 300: Capital Asset Plan and Business Case Summary

### Part I: Summary Information And Justification (All Capital Assets)

#### Section A: Overview (All Capital Assets)

**1. Date of Submission:** 2010-03-10 08:21:20

**2. Agency:** 007

**3. Bureau:** 21

**4. Name of this Investment:** ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEM

**5. Unique Project (Investment) Identifier:** 007-21-05-14-01-2166-00

**6. What kind of investment will this be in FY 2011?:** Mixed Life Cycle

- Planning
- Full Acquisition
- Operations and Maintenance
- Mixed Life Cycle
- Multi-Agency Collaboration

**7. What was the first budget year this investment was submitted to OMB? \***

**8. Provide a brief summary and justification for this investment, including a brief description of how this closes in part or in whole an identified agency performance gap; this description may include links to relevant information which should include relevant GAO reports, and links to relevant findings of independent audits.**

The Advanced Field Artillery Tactical Data System (AFATDS) performs Command and Control, increases Situational Awareness and automates fire support coordination for the Army, Navy, Air Force and Marine Corps. AFATDS automates the planning, coordinating and controlling of all fire support assets in the Joint battlespace (field artillery, mortars, close air support, naval gunfire, attack helicopters, and offensive electronic warfare) from Echelons Above Corps to Battery or Platoon in support of all levels of conflict. As a result of Operation Iraqi Freedom (OIF)/Operation Enduring Freedom (OEF), AFATDS has implemented precision fires capabilities in new/improved munitions such as Multiple Launch Rocket System (MLRS) Unitary Vertical Attack, Excalibur, Smart and 155 Bonus. Additional implemented capabilities include automatic conduct of Unit Fratricide Avoidance Checks and Collateral Damage Avoidance. AFATDS will field New Non Line of Sight - Launch System (NLOS-LS) Precision Attack Munition (PAM) and improved Command and Control (C2) for the United States Marine Corps (USMC) Firing platform and its new munitions. This project is a replacement system for the Initial Fire Support Automated System (IFSAS), Battery Computer System (BCS) and Fire Direction System (FDS). AFATDS will interoperate with the other Army Battle Command Systems, current and future Army, Navy and Air Force Command and Control weapon systems, and the German, French, British, and Italian fire support systems. The system is composed of common hardware/software employed in varying configurations at different operational facilities (or nodes) and unique system software interconnected by tactical communications in the form of a software-driven, automated network. The system uses non-developmental, rugged common hardware/software, including the Unix Laptop Computer (ULC), Compact Computer Unit (CCU), Notebook Computer Unit (NCU) as well as vehicle installation kits (IKs). The current system support comes from the successful fielding of AFATDS Version A96 through 6.3.2, 6.4.0.1, 6.4.0.2, 6.5 and 6.5.0.1.(out of cycle Windows based operating system). Version 6.5.0.1 is being fielded now. The total force will be fielded a Windows based platform by fiscal year 2013.

- a. Provide here the date of any approved rebaselining within the past year, the date for the most recent (or planned) alternatives analysis for this investment, and whether this investment has a risk management plan and risk register.**

**9. Did the Agency's Executive/Investment Committee approve this request? \***

a. If "yes," what was the date of this approval? \*

**10. Contact information of Program/Project Manager?**

- **Name:** \*
- **Phone Number:** \*
- **Email:** \*

**11. What project management qualifications does the Project Manager have? (per FAC-P/PM)? \***

- Project manager has been validated according to FAC-PMPM or DAWIA criteria as qualified for this investment.
- Project manager qualifications according to FAC-P/PM or DAWIA criteria is under review for this investment.
- Project manager assigned to investment, but does not meet requirements according to FAC-P/OM or DAWIA criteria.
- Project manager assigned but qualification status review has not yet started.
- No project manager has yet been assigned to this investment.

**12. If this investment is a financial management system, then please fill out the following as reported in the most recent financial systems inventory (FMSI):**

Financial management system name(s)	System acronym	Unique Project Identifier (UPI) number
*	*	*

**a. If this investment is a financial management system AND the investment is part of the core financial system then select the primary FFMIA compliance area that this investment addresses (choose only one): \***

- computer system security requirement;
- internal control system requirement;
- core financial system requirement according to FSIO standards;
- Federal accounting standard;
- U.S. Government Standard General Ledger at the Transaction Level;
- this is a core financial system, but does not address a FFMIA compliance area;
- Not a core financial system; does not need to comply with FFMIA

## Section B: Summary of Funding (Budget Authority for Capital Assets)

**1.**

<b>Table 1: SUMMARY OF FUNDING FOR PROJECT PHASES</b> <b>(REPORTED IN MILLIONS)</b> (Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)									
	PY1 and earlier	PY 2009	CY 2010	BY 2011	BY+1 2012	BY+2 2013	BY+3 2014	BY+4 and beyond	Total
Planning:	*	*	*	*	*	*	*	*	*
Acquisition:	*	*	*	*	*	*	*	*	*
Subtotal Planning & Acquisition:	*	*	*	*	*	*	*	*	*
Operations & Maintenance:	*	*	*	*	*	*	*	*	*
Disposition Costs (optional):	*	*	*	*	*	*	*	*	*
<b>SUBTOTAL:</b>	*	*	*	*	*	*	*	*	*
<b>Government FTE Costs should not be included in the amounts provided above.</b>									
Government FTE Costs	*	*	*	*	*	*	*	*	*
Number of FTE represented by Costs:	*	*	*	*	*	*	*	*	*
<b>TOTAL(including FTE costs)</b>	*	*	*	*	*	*	*	*	*

**2. If the summary of funding has changed from the FY 2010 President's Budget request, briefly explain those changes:**

\*

## Section C: Acquisition/Contract Strategy (All Capital Assets)

1. **Table 1: Contracts/Task Orders Table**

Contract or Task Order Number	Type of Contract/ Task Order (In accordance with FAR Part 16)	Has the contract been awarded (Y/N)	If so what is the date of the award? If not, what is the planned award date?	Start date of Contract/ Task Order	End date of Contract/ Task Order	Total Value of Contract/ Task Order (M)	Is this an Interagency Acquisition? (Y/N)	Is it performance based? (Y/N)	Competitively awarded? (Y/N)	What, if any, alternative financing option is being used? (ESPC, UESC, EUL, N/A)	Is EVM in the contract? (Y/N)
DAAB07-99-C-E003 Software Development, System Engineering, Test and Integration	CPAF and T&M	Y	1999-09-14	1999-09-14	2012-12-30	\$400.0	*	*	*	*	*
W15P7T-06-D-E404 DO 0016 Technology and Logistics	T&M	Y	2008-08-28	2008-09-28	2011-09-29	\$26.7	*	*	*	*	*
W15P7T-06-D-E405 TO 0003 Test/IV&V	T&M	Y	2006-03-02	2006-06-28	2010-06-28	\$5.5	*	*	*	*	*
W15P7T-06-D-E402 TO 77 Technical, Business and Logistics Support	T&M	Y	2008-02-01	2008-02-01	2009-09-06	\$4.0	*	*	*	*	*
DAAH01-03-D-0029 IDIQ Hardware and licenses	IDIQ	Y	2003-05-28	2003-05-28	2013-05-30	\$79.0	*	*	*	*	*
W15P7T-06-D-L008 Hardware /Taclinks & Cables	IDIQ	Y	2006-02-28	2006-02-28	2011-02-27	\$26.0	*	*	*	*	*

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:

\*

3. Is there an acquisition plan which reflects the requirements of FAR Subpart 7.1 and has been approved

in accordance with agency requirements? \*

a.If "yes," what is the date? \*

## Section D: Performance Information (All Capital Assets)

Table 1: Performance Information Table

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2009	Reshaping the Defense Enterprise	*	*	Lethality	Av6.4 does not have the capability to control Non-Line of Sight Launch System (NLOS LS) new Precision Attack Missiles.	Continue automated processing and required interface software to control new NLOS LS missiles; increasing precision by 60%.	The capability to conduct fire missions using Excalibur , ERGM and Guided MLRS was fielded as part of AFATDS V6.5 (1QFY09)
2009	Reshaping the Defense Strategy	*	*	External Data Sharing	Av6.5 does not provide data sharing using web technology and services that Dod is mandating.	Develop AFATDS web services to permit commander and staff to determine effects of weapon target pairing and unexploded ordinance. Decision and planning time decreased by 20%.	Initial web service capabilities were included in Av6.5 (fielded in 1QFY09). These have been expanded with each subsequent version fielding. Av6.6 (Materiel Release Mar 2010) includes a Fires Web Portal capability.
2009	Reshaping the Defense Strategy	*	*	External Data Sharing	Av6.4 only executes on hardware platforms that are Unix operating system capable.	Continue port AFATDS to Personal Computer (PC) compatible hardware and associated operating environment (Linux or Microsoft Windows). Hardware replacement costs decrease by 30% over the life cycle.	AFATDS port to the Windows platform is complete. The first Windows AFATDS platform (V6.5.1) was fielded in 4QFY09.
2010	Reshaping of the Defense Enterprise	*	*	Lethality	Enter Baseline Av6.5 does not provide capability to use improved, lethal fires and munitions.	Continue integrating the selection and use of newest ammunitions that are more lethal, precise and have longer range of 10% increase.	V6.6 (Materiel Release Mar 2010) incorporates PGK, NLOS LS PAM and supports observer requests for use of PGM.
2010	Reshaping the Defense Enterprise	*	*	Response Time	Av6.5 does not distinguish between observer priority requests for fires from other	Develop AFATDS capability to process and record a priority target from an	Observer priority requests for fire is being implemented in Av6.6 (FY10)

Table 1: Performance Information Table

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
					fire missions.	observer to improve fires service from 2 minutes to 20 seconds.	
2010	Reshaping the Defense Enterprise	*	*	Cycle Time	Av6.5 does not provide dynamic Fire Support unit range fans that appropriately display based on unit's on-board ammunition.	Develop AFATDS support that display unit range fans based on date entered by the unit and automatically update. Increase decision cycle time from 2 minutes to 40 seconds.	Requirements implemented and tested in Av6.6; scheduled for fielding in 2QFY10.
2010	Reshaping the Defense Enterprise	*	*	External Data Sharing	Av6.5 does not provide data sharing using web technology and services that DoD is mandating.	Provide the means for disadvantaged users to access AFATDS functionality via IP addressing.	A Fires Web Portal capability will be fielded in AFATDS V6.6 (FY10).
2010	Reshaping the Defense Enterprise	*	*	Response Time	Av6.5 does not provide an automated schedule of fires.	Continue automated processing for schedule of fires to improve time tables of coordinated fires from 5 minutes per mission to less than 2 minutes.	Capability is included in AFATDS V6.6. Functionality has been tested and is scheduled for Material Release in Mar 2010.
2010	Reshaping the Defense Enterprise	*	*	Response Time	Av6.5 does not distinguish between observer priority requests for fires from other fire missions.	Develop AFATDS capability to process and record a priority target from an observer to improve fires service from 2 minutes to 20 seconds.	Requirement for observer priority requests for fire is being implemented in Av6.6 (FY10)
2011	Reshaping the Defense Enterprise	*	*	External Data Sharing	Av6.6 does not provide for Active Mode Weapon Target Pairing or Unexploded Ordnance Service.	Develop AFATDS web services to permit commander and staff to determine effects of weapon target pairing and unexploded ordnance. Decision making and planning time decreases by 20%.	Active Mode Weapon Target Pairing and Unexploded Ordnance Web Services have been tested in numerous exercises and are scheduled for fielding in Av6.7 (2QFY11).

Table 1: Performance Information Table

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
2011	Reshaping the Defense Enterprise	*	*	Response Time	Av6.6 receives the theatre level Restricted Target List (RTL)/No Strike List (NSL) but then must input this database via manual input to an Excel spreadsheet.	Develop an automated ability to query, retrieve and input the theatre level Restricted Target List (RTL)/No Strike List (NSL).	Actual results will be fielded in FY11.
2011	Reshaping the Defense Enterprise	*	*	Cycle Time	Av6.6 uses the obsolete JMTK map. engine	Continue to incorporate additional map engines into AFATDS.	AFATDS has added OpenMap, Falconview and Google Earth. Actual results will be fielded in FY11.
2011	Reshaping of the Defense Enterprise	*	*	Lethality	Av6.6 does not include the capability for a forward observer to have multiple precision aimpoints in a single Call For Fire (CFF).	Enhance FM processing capabilities to allow an forward observer to designate multiple precision aimpoints in a single CFF. The ability to use 1 CFF will reduce processing for this mission type by 20%.	Actual Results will be tested in FY11.
2012	Reshaping of the Defense Enterprise	*	*	Lethality	Av6.7 fire mission processing does not include precision mortar rounds.	Update the Av6.8 fire mission processing to include the precision mortar munitions (APMI).	Actual results will be tested and fielded in Av6.8 (FY12-FY13).
2012	Reshaping of the Defense Enterprise	*	*	Lethality	Av6.7 fire mission processing capability needs to be expanded to include new precision munitions and fuzes.	Continue to integrate new weapons and munitions. Implement processing to support new PGK fuzes and upgraded Excalibur munitions.	Actual results will be tested and fielded in Av6.8 (FY12-FY13).
2012	Reshaping of the Defense Enterprise	*	*	External Data Sharing	Av6.7 does not provide for automated processing with current USAF modernization efforts.	Expand Av6.8 capabilities to interface with the AOC Weapon System and JTAR Processing. Expand web services to interface with the C2AOs and	Actual results will be tested and fielded in Av6.8 (FY12-FY13).



Table 1: Performance Information Table

Fiscal Year	Strategic Goal(s) Supported	Measurement Area	Measurement Grouping	Measurement Indicator	Baseline	Target	Actual Results
						C2IS services.	
2013	Reshaping of the Defense Enterprise	*	*	External Data Sharing	Av6.7 lacks a current automated interface with the Joint/Multi-National Foreces.	Expand AFATDS capabilities to include Joint Interagency Multi-National interoperability (JIMI) Data Interfaces.	Actual results will be tested and fielded in Av6.8 (FY12-FY13).
2013	Reshaping of the Defense Enterprise	*	*	Lethality	Av6.7 fire mission processing capability needs to be expanded to include an Electronic Warfare attack capability.	Enhance the existing fire mission capabilities of AFATDS to include Electronic Warfare attack.	Actual results will be tested and fielded in Av6.8 (FY12-FY13).
2013	Reshaping of the Defense Enterprise	*	*	AFATDS 6.7 fire mission processing capability needs to be expanded to lethal/non-lethal special purpose guided munitions.	Av6.7 fire mission processing capability needs to be expanded to lethal/non-lethal special purpose guided munitions.	Enhance the existing fire mission capabilities of AFATDS to include all available lethal/non-lethal special purpose guided munitions.	Actual results will be tested and fielded in Av6.8 (FY12-FY13).
2013	Reshaping of the Defense Enterprise	*	*	External Data Sharing	Av6.7 lacks a means to extract data from Joint Data Repositories via web based services.	Expand AFATDS capabilities web services to publish/retrieve data from Joint Data Repositories.	Actual results will be tested and fielded in Av6.8 (FY12-FY13).

## Part II: Planning, Acquisition And Performance Information

### Section A: Cost and Schedule Performance (All Capital Assets)

1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline								
Description of Milestones	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
AFATDS Block II (V6.5) Software development and test. Each Software Block is a deliverable. Enhances interoperability, adds new guided munitions and handles the employment of current munitions and weapon platforms.	\$47.8	\$46.6	2006-04-30	2006-04-30	2008-10-31	2008-12-01	100.00%	100.00%
AFATDS Block II+ (V6.6) Software development and test. Each Software Block is a deliverable. Enhances interoperability, adds new guided munitions and handles the employment of current munitions and weapon platforms.	\$53.2	\$50.8	2007-01-31	2007-01-31	2010-03-30	2010-03-30	90.00%	90.00%
AFATDS Block III (V6.7) Software development and test. Each Software Block is a deliverable. Enhances interoperability, adds new guided munitions and handles the employment of current munitions and weapon platforms.	\$38.0	\$24.6	2008-04-07	2008-04-07	2010-11-30		70.00%	70.00%
AFATDS	\$38.0	\$0.0	2010-02-28	2010-02-28	2011-07-31		0.00%	0.00%

1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline								
Description of Milestones	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
Block III+ (V6.8) Software development and test. Each Software Block is a deliverable. Enhances								
AFATDS Block IV (V6.9) Software development and test. Each Software Block is a deliverable. Enhances interoperability, adds new guided munitions and handles the employment of current munitions and weapon platforms.	*	*	2011-02-28		2012-07-31		0.00%	0.00%
AFATDS Block IV+ (V7.0) Software development and test. Each Software Block is a deliverable. Enhances interoperability, adds new guided munitions and handles the employment of current munitions and weapon platforms.	*	*	2012-02-28		2014-07-31		0.00%	0.00%
AFATDS Block V (V7.1) Software development and test. Each Software Block is a deliverable. Enhances interoperability, adds new guided munitions and	*	*	2014-02-28		2016-07-31		0.00%	0.00%

1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline								
Description of Milestones	Planned Cost (\$M)	Actual Cost (\$M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
handles the employment of current munitions and weapon platforms.								
AFATDS Windows refresh based on a 5 year refresh cycle with 4 full refresh cycles through FY2027.	\$1,627.4	\$650.5	2008-05-30	2008-05-30	2027-09-30		40.00%	40.00%

\* - Indicates data is redacted.